

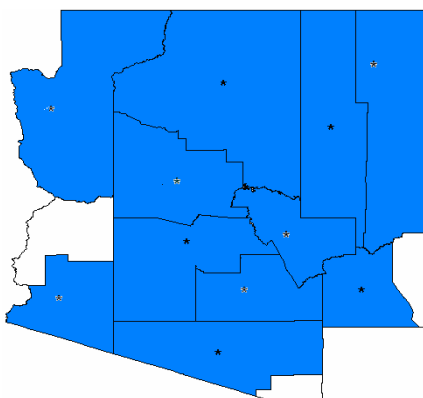
**Weekly Influenza Summary:**

"Regional" influenza activity was reported in Arizona for the week ending on 1/19/2008 (week 3). In Arizona, 296 cases have been reported from eleven counties and 4 cases were reported from an unknown county source. No pediatric influenza-associated deaths have been reported in Arizona for the current season. The influenza-like-illness rate is above the state baseline for week 1.

Data in this report are provisional and may change as more reports are received.

National influenza surveillance data are available at the CDC's Influenza Surveillance site (<http://www.cdc.gov/flu/weekly/fluactivity.htm>).

**Influenza Activity by County:**



**Key:**

\* = Any activity reported this season

Blue = Activity reported in past three weeks

White = No activity reported in past three weeks

**Flu Cases Reported 2007 – 2008 Season**

County	# cases	County	# cases	County	# cases
Apache	3	Greenlee	0	Pima	17
Cochise	0	La Paz	0	Pinal	4
Coconino	41	Maricopa	213	Santa Cruz	0
Gila	1	Mohave	2	Yavapai	2
Graham	4	Navajo	8	Yuma	1
				Total	296

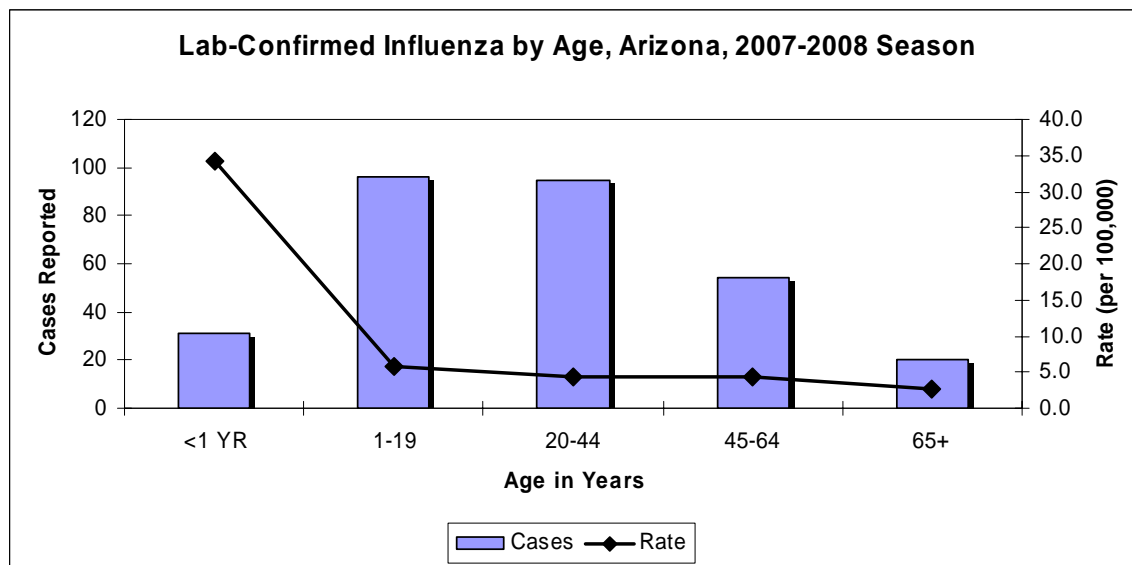
**Flu Cases Reported Last Week**

County	# cases	County	# cases	County	# cases
Apache	2	Greenlee	0	Pima	6
Cochise	0	La Paz	0	Pinal	2
Coconino	15	Maricopa	29	Santa Cruz	0
Gila	0	Mohave	2	Yavapai	1
Graham	1	Navajo	0	Yuma	0
				Total	58

**Lab Surveillance:**

Laboratories report positive influenza tests to ADHS. Of the lab-confirmed influenza reported this season, 192 are influenza A (78 confirmed by culture or PCR), 61 are influenza B (13 confirmed by culture or PCR) and 47 are unknown.

Ages of reported cases range from less than one year to over 65 years.

**Subtyping – Culture or PCR Results:**

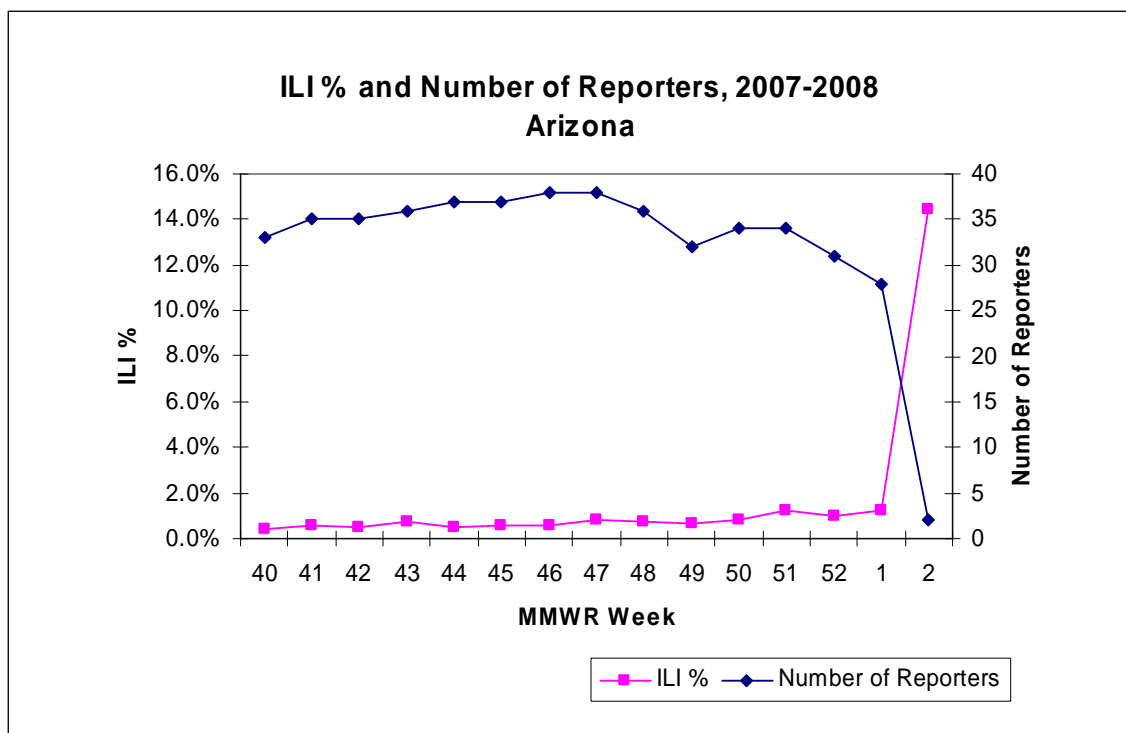
Viral isolation, or culture, is currently the “gold standard” for diagnosis of influenza virus infections. The influenza subtype can be determined by a test called hemagglutination inhibition (HI) using viral isolates. Polymerase chain reaction (PCR) can also be used to identify influenza B and the hemagglutinin (H) component of influenza A.

Of the 78 culture- or PCR-confirmed influenza A cases, 2 are H3N2 and 2 are H3 by PCR, 24 are H1 and 19 are H1N1 and the other 31 influenza A cases are untyped. The 13 PCR positive influenza B cases are untyped.

**Influenza-Like Illness (ILI) Surveillance from Sentinel Providers**

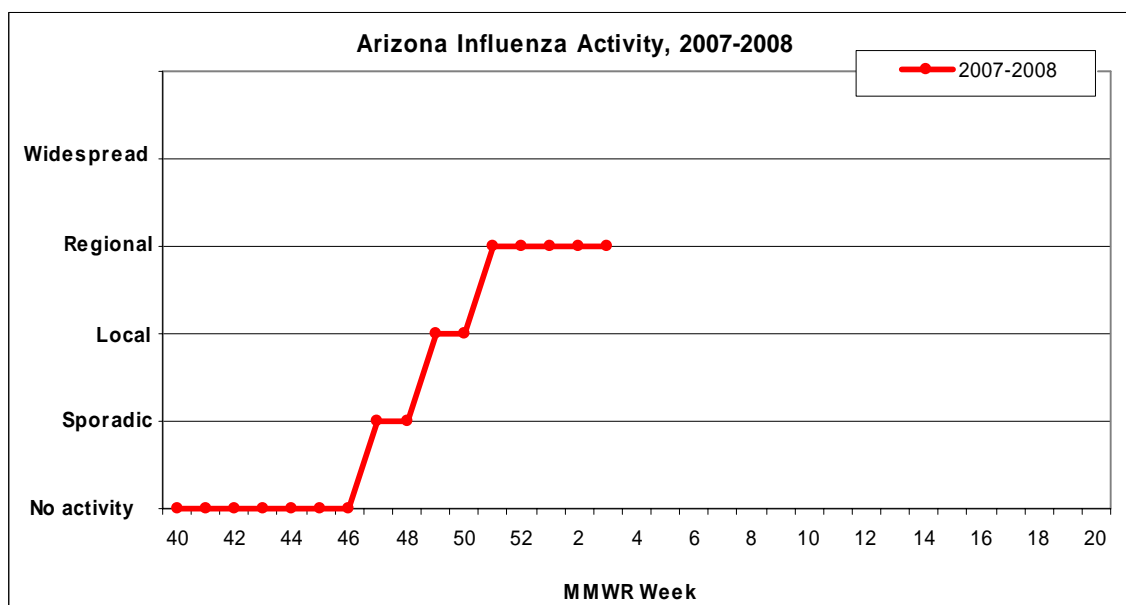
The proportion of patient visits to sentinel providers for ILI in the state was 14.5% for the week ending 1/12/2008 (week 2). This proportion is unusually high compared to recent weeks and the value is much higher than the Arizona ILI baseline (0.5%). As of 1/22/08, only 2 sentinel providers reported by the end of week 2. The low number of sentinel reporters is significantly less than the average number of 34.6 sentinel providers reporting each week during the previous 14 weeks.

ILI is defined as a fever of at least 100°F plus either a cough or a sore throat.



### Arizona Influenza Activity Levels

The graph below shows the influenza activity levels reported to the CDC for this season only. CDC has changed the reporting criteria for state activity levels so Arizona's data from previous seasons are no longer directly comparable to the current season. For week 3, Arizona reported "regional activity". Definitions of these reporting categories can be found at <http://www.cdc.gov/flu/weekly/fluactivity.htm>.



### RSV Activity in Arizona:

Increasing respiratory syncytial virus (RSV) activity has been reported in Arizona. As of 1/19/2008, 516 lab-confirmed cases have been reported. 92 new cases of RSV were reported during week 3.

